Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

CW 38: Corresponding Sides & Angles

**Honors Geometry**

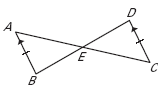
|  |  |
| --- | --- |
| 1. EGI and QMO are congruent. a. Find the rigid motion (transformation) that carries one triangle onto the other.   b. Make a list of the three pairs of corresponding angles and the three pairs of corresponding sides. | 1. TRV and YXZ are congruent a. Find the rigid motion (transformation) that carries one triangle onto the other.   b. Make a list of the three pairs of corresponding angles and the three pairs of corresponding sides. |

* Order matters! Explain why the statement is written TRV and YXZ and NOT TVR and YXZ.
* If two angles in a triangle are congruent to two angles in another triangle, what conclusion can be drawn about the third angle? Draw a picture to illustrate your point.

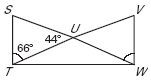
**DIRECTIONS:**   
a. Find the rigid motion (transformation) that carries one figure onto the other.   
b. Make a list of the pairs of corresponding angles and the pairs of corresponding sides.  
c. Find the missing values.

|  |  |
| --- | --- |
| 1. In the diagram to the below, QRST ≅ WXYZ. | 1. Given ΔHJK ≅ Δ TRS. |
| 5) Given ΔABC ≅ ΔDEF. | 6) Given Δ KOM ≅ ΔRVT |

|  |  |  |
| --- | --- | --- |
| 7) | 8) | 9) |

10) Given: E is the midpoint of AC and BD

1. List the corresponding sides and angles.
2. Is Δ AEB ≅ ΔCED? Explain.



11) Given: Δ SUT ≅ VUT

1. List the corresponding sides and angles.
2. Is Δ AEB ≅ ΔCED? Explain.
3. What is the measure of m∠V? Explain how you determined your answer.